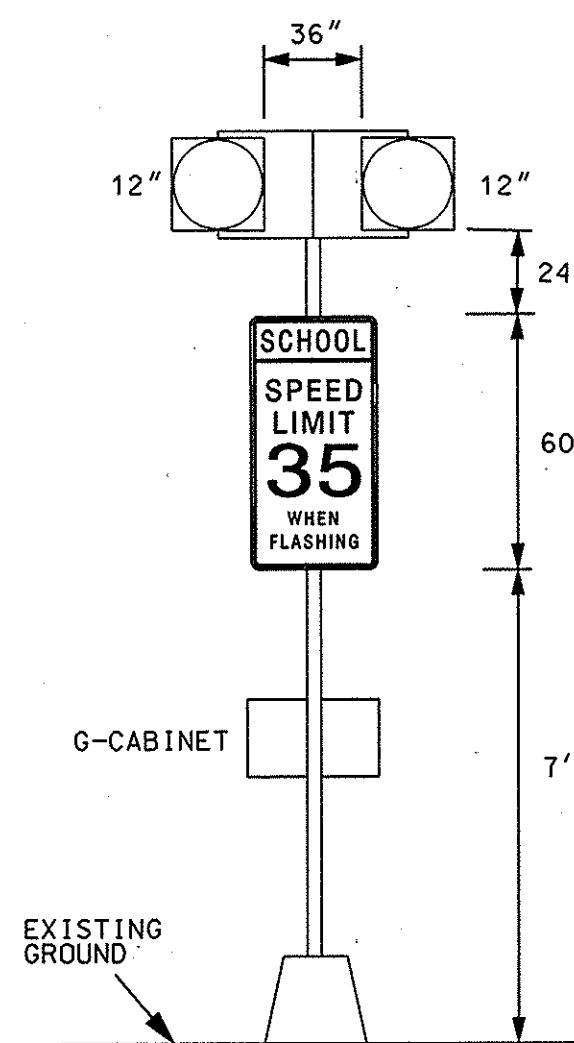
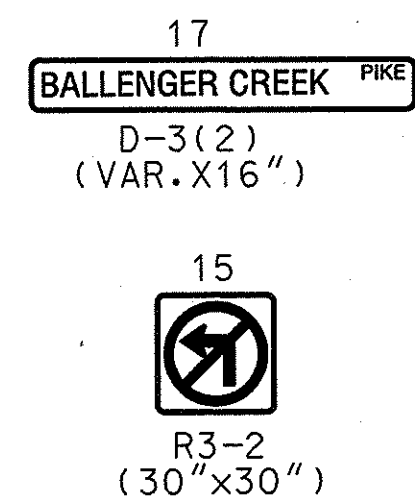


BALLENGER CREEK PIKE IS CONSIDERED TO RUN IN THE NORTH-SOUTH DIRECTION

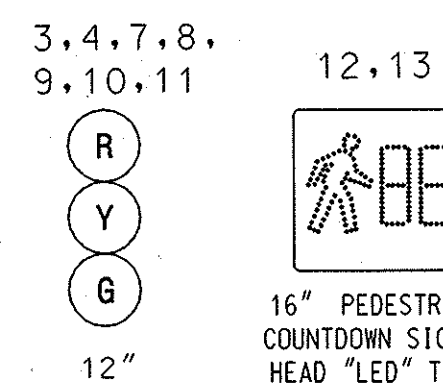
THERE ARE FIVE HANDBOXES LOCATED IN BREAK AREA. 1250' OF 2" PVC SCHEDULE 80 CONDUIT - TRENCHED.



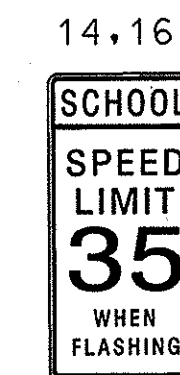
EXISTING SIGNS



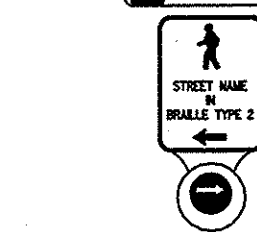
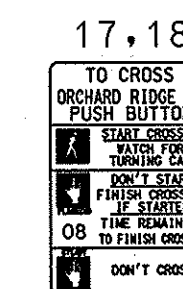
EXISTING SIGNALS



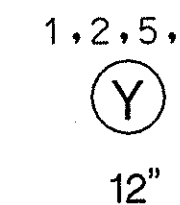
PROPOSED SIGNS



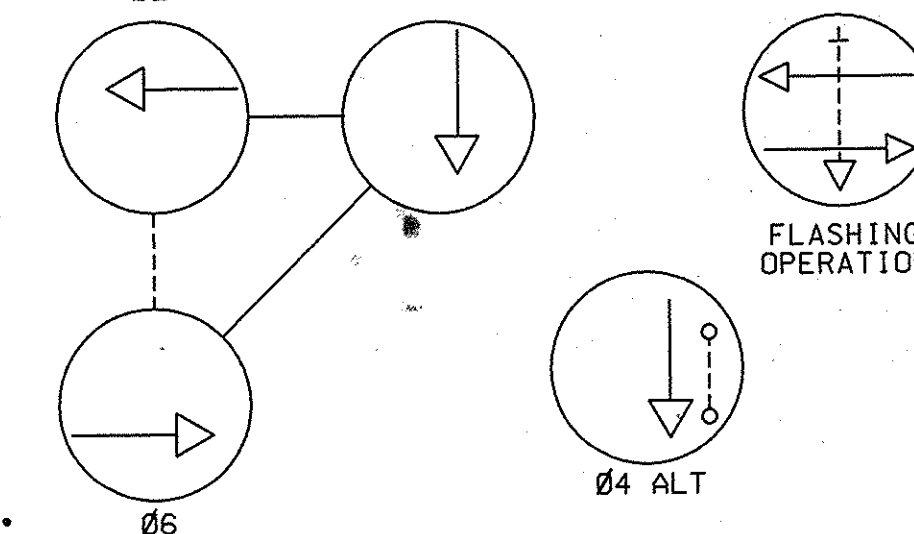
S5-1
30" X 60"
(TOP - BK ON FYG)
(BOTTOM - BK ON WH)



PROPOSED SIGNALS



NEMA PHASING



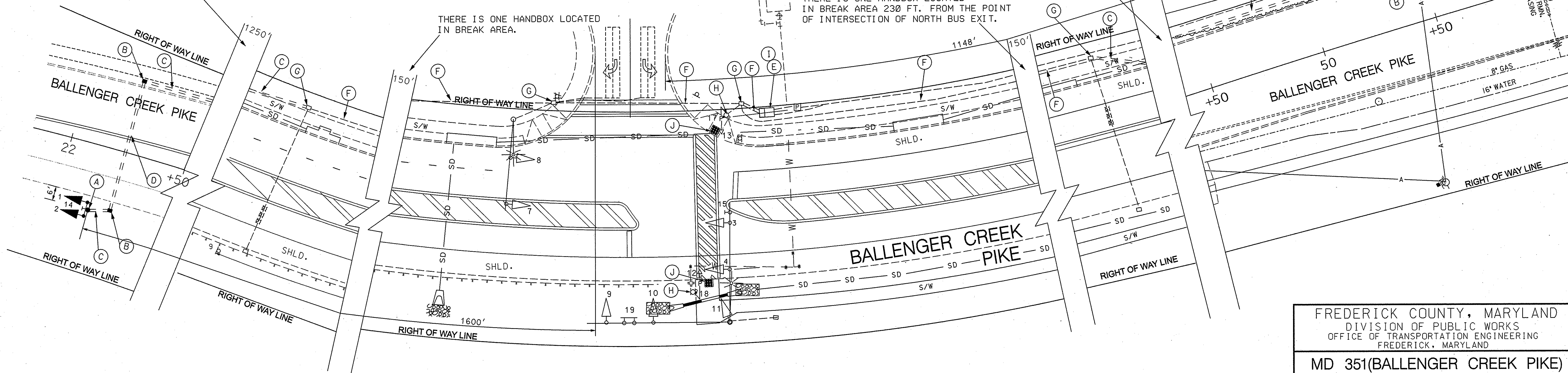
PHASING NOTES:

PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

NORTH BUS EXIT

THERE IS ONE HANDBOX LOCATED IN BREAK AREA 230 FT. FROM THE POINT OF INTERSECTION OF NORTH BUS EXIT.

THERE ARE FOUR HANDBOXES LOCATED IN BREAK AREA. 96' OF 2" PVC SCHEDULE 80 CONDUIT - BORED. 654' OF 2" PVC SCHEDULE 80 CONDUIT - TRENCHED.



CONSTRUCTION DETAILS

- INSTALL CONCRETE FOUNDATION WITH 14" STEEL PEDESTAL POLE, BREAKAWAY BASE, CONCRETE PAD, SIGNAL HEADS AND SIGN. (NOTE: 2 - 2" PVC SCHEDULE 80 CONDUIT BENDS)
- INSTALL HANDBOX.
- INSTALL 2" PVC SCHEDULE 80 CONDUIT - TRENCHED.
- INSTALL 2" PVC SCHEDULE 80 CONDUIT - BORED.
- USE EXISTING CABINET.
- USE EXISTING CONDUIT.
- USE EXISTING HANDBOX.
- USE EXISTING PEDESTAL POLE, REMOVE EXISTING PUSHBUTTON AND INSTALL AUDIBLE TACTILE PUSHBUTTON STATION AND PEDESTRIAN EDUCATION SIGN.
- INSTALL 2 WIRE CENTRAL CONTROL UNIT IN THE EXISTING CABINET.
- INSTALL DETECTABLE WARNING SURFACE (NOTE: USE STANDARD MD 655.40).

GENERAL NOTES:

- ALL UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING 'MISS UTILITY' PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, AND MD 818.04 THE CONTRACTOR SHALL VERIFY GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

SHA No.: BW503M83

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

A	A	AERIAL CABLE
E	E	ELECTRIC
T	T	TELEPHONE
G	G	GAS
S	S	SEWER
W	W	WATER
TV	TV	CABLE TV
SD	SD	STORM DRAIN

APPROVALS	REVISIONS
TEAM LEADER	A - 6/23/2006: INSTALLATION OF H18'S
ASST. DIV. CHIEF	RJM CJS
DIVISION CHIEF	
OFFICE DIRECTOR	

APPROVALS	REVISIONS
TEAM LEADER	A - 6/23/2006: INSTALLATION OF H18'S
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DIVISION CHIEF	
OFFICE DIRECTOR	

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK, MARYLAND

MD 351(BALLENGER CREEK PIKE) TUSCARORA HIGH SCHOOL N. EXIT TRAFFIC SIGNAL PLAN

THIS MODIFICATION DESIGNED BY:

DESIGNED BY _____ DATE _____
DRAWN BY _____ SCALE _____
CHECKED BY _____
* BAI PERSONNEL

APPROVED: _____ DATE _____
DIVISION OF PUBLIC WORKS, DIRECTOR

APPROVED: _____ DATE _____
DEPARTMENT OF HIGHWAYS AND TRANSPORTATION, HEAD

APPROVED: _____ DATE _____
OFFICE OF TRANSPORTATION ENGINEERING, ENGINEERING MANAGER

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

BALLENGER CREEK PIKE TUSCARORA HIGH SCHOOL N. EXIT

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 04/04/2005 CONTRACT NO. _____
DESIGNED BY M.A. MEARS COUNTY FREDERICK
DRAWN BY M.A. MEARS LOGMILE 100351.03.04
CHECKED BY RJM T.I.M.S. NO. _____
F.A.P. NO. _____ TOD NO. _____
DRAWING NO. 4505 SG-1 OF SG-2 SHEET NO. 4 OF 6

PLOTTED: 04/04/2005
FILE: 04/04/2005

BAI

BRUDIS & ASSOCIATES, INC.
CONSULTING ENGINEERS

9220 RUMSEY ROAD, SUITE 110
COLUMBIA, MARYLAND 21045
410-884-3607 410-884-3609(FAX)